

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Matthew Clapper on 12/09/2008.

2. The application has been amended as follows:

Claim 1 (Amended) A system embodied on a computer readable storage medium that when executed on one or more processors facilitate processing rules, comprising:

a translator component that translates synchronous statements to asynchronous instructions using a synchronous programming model;

a runtime engine that reads the translated instructions and facilitates efficient scheduling and parallel processing of the translated instructions;

in which the instructions insert periodic yield instructions into the statements to facilitate at least one of yielding to runtime rule code execution switching and calling a utility function provided by the processors, and

in which the translated instructions are scheduled for processing based upon a polling structure, which processing occurs for at least one of the polling structure of a current frame and the polling structure at the tops of a stack.

Claim 9 (cancelled).

Claim 17 (Amended) A system embodied on a computer readable storage medium that when executed on one or more processors facilitates concurrent processing of rules comprising:

a translator component that translates the rules into instructions for concurrent processing; ~~and~~

a runtime engine that schedules the instructions for processing and processes some or all of the instructions concurrently according to the schedule, and

means for injecting yield instructions into the rule to facilitate at least one of: yielding execution of the rule to rule code execution switching during processing by the runtime engine, and to facilitate calling utility functions provided by the runtime engine

the instructions are translated and scheduled for processing based upon a polling structure, which processing occurs for at least one of the polling structure of a current frame and the polling structure at the tops of a stack.

Claim 20, line 7, **after** "for processing" **insert** "by injecting periodic yield instructions into the rules to facilitate at least one of: yielding execution of the rule

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to rule code execution switching during processing by the runtime engine, and to facilitate calling utility functions provided by the runtime engine”.

Claim 20, line 10, **replace** “and the” **with** “or the”.

Claim 28, line 1, **replace** “according to” **with** “embodying”.

### **REASONS FOR ALLOWANCE**

3. The following is an examiner’s statement of reasons for allowance:

The prior art of record fails to teach or suggest the claimed invention. Specifically the prior art of record fails to teach or suggest injecting periodic yield instructions into the rules to facilitate at least one of: yielding execution of the rule to rule code execution switching during processing by the runtime engine, and to facilitate calling utility functions provided by the runtime engine as recited in independent claims 1, 17, 20, 29, 37, and 40.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL YAARY whose telephone number is (571)270-1249. The examiner can normally be reached on Monday-Friday, 8:00 a.m - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis Bullock can be reached on (571) 272-3759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. Y./  
Examiner, Art Unit 2193

/Lewis A. Bullock, Jr./  
Supervisory Patent Examiner, Art Unit 2193